

AP® Microeconomics 2005 Sample Student Responses Form B

The College Board: Connecting Students to College Success

The College Board is a not-for-profit membership association whose mission is to connect students to college success and opportunity. Founded in 1900, the association is composed of more than 4,700 schools, colleges, universities, and other educational organizations. Each year, the College Board serves over three and a half million students and their parents, 23,000 high schools, and 3,500 colleges through major programs and services in college admissions, guidance, assessment, financial aid, enrollment, and teaching and learning. Among its best-known programs are the SAT®, the PSAT/NMSQT®, and the Advanced Placement Program® (AP®). The College Board is committed to the principles of excellence and equity, and that commitment is embodied in all of its programs, services, activities, and concerns.

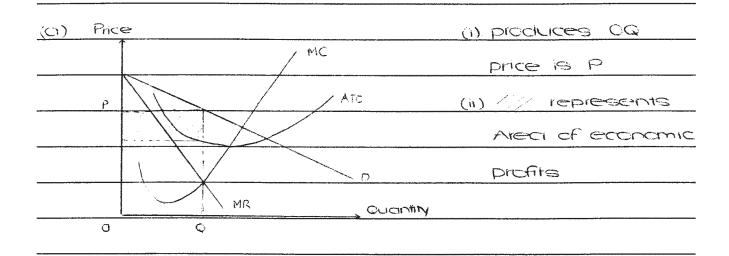
Copyright © 2005 by College Board. All rights reserved. College Board, AP Central, APCD, Advanced Placement Program, AP, AP Vertical Teams, Pre-AP, SAT, and the acorn logo are registered trademarks of the College Entrance Examination Board. Admitted Class Evaluation Service, CollegeEd, Connect to college success, MyRoad, SAT Professional Development, SAT Readiness Program, and Setting the Cornerstones are trademarks owned by the College Entrance Examination Board. PSAT/NMSQT is a registered trademark of the College Entrance Examination Board and National Merit Scholarship Corporation. Other products and services may be trademarks of their respective owners. Permission to use copyrighted College Board materials may be requested online at: http://www.collegeboard.com/inquiry/cbpermit.html.

Visit the College Board on the Web: www.collegeboard.com.

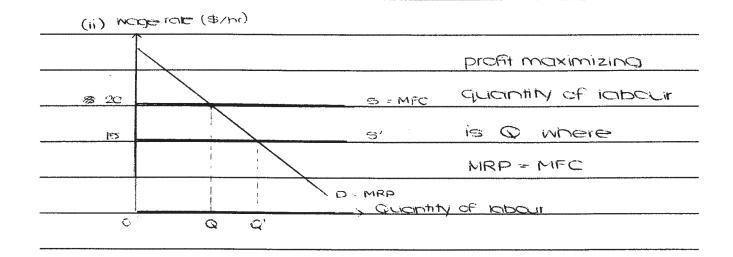
AP Central is the official online home for the AP Program and Pre-AP: apcentral.collegeboard.com.



Write in the box the number of the question you are answering on this page as it is designated in the examination. 1



(b) (i) A firm hires up to the point where maiginal factor cost (MFC) = Mairginal revenue product (MRP) for profit-maximizing amount of labor.



(c) (i) supply curve shifts from 5 to 5'

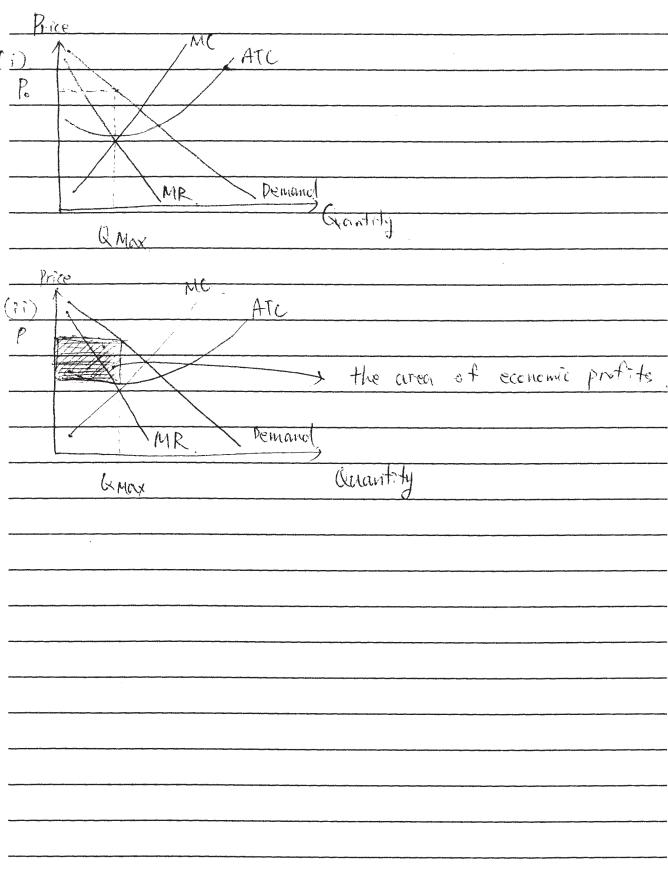
(ii) Petsall would hire CQ'

1	A
ı	Ľ
1	r

Write in the box the number of the question you are answering on this page as it is designated in the examination.
(d) (i) Total fixed costs remain unchanged since waiges are variable costs.
(ii) Marginal cost falls since Petsall is
paying less (\$15/hr) for each additional
(iii) At lower input costs, Petsall will supply
more, shifting the supply curve of the
product to the right and therefore the
price of the product falls Product so
P. D. Gipton
·

Write in the box the number of the question you are answering on this page as it is designated in the examination.

 $1-(\alpha)$

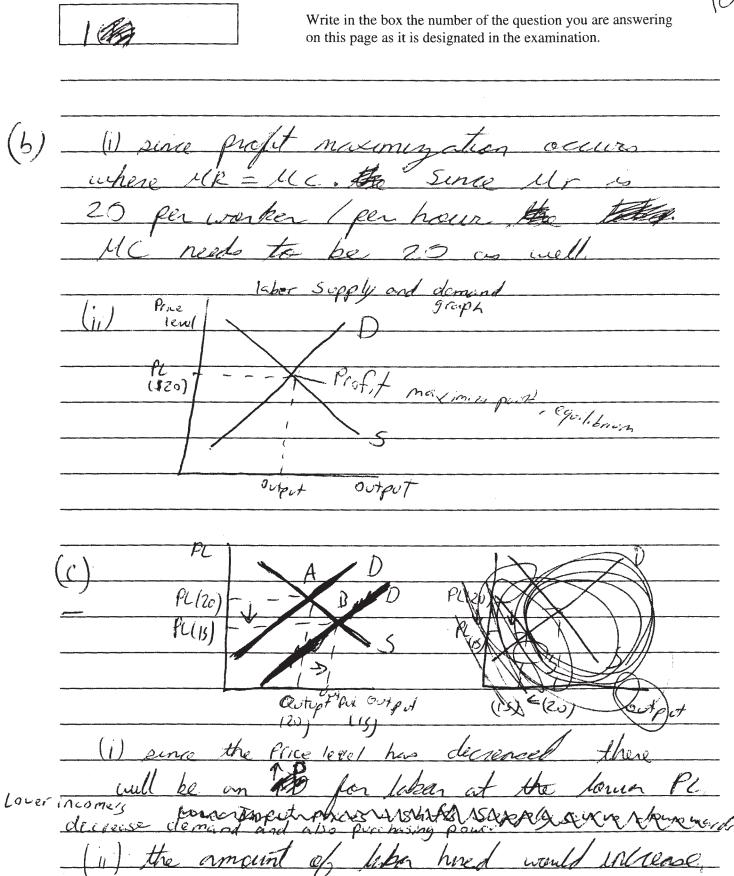


1-(1)	Write in the box the number of the question you are answering on this page as it is designated in the examination.
(i) MRP = MF	-C.
(Ti) Hage	Supply
20 W	
	Demanel Quantity
Qniax	Summary

on	Trite in the box the number of the question you are answering in this page as it is designated in the examination.	<u>1</u> -(c)
(i) Va		
	3	
	<u> </u>	
₹ 20°		
A 15		And the state of t
	> Quantity	
	C, area C2	
de	illustrated on the grouph the supply or	t labor to Petsall
11700	1 mm	F (GINE) 7: 101564
80 (11)	clearense from CAMIX to Q	-
i) A	to illustrated on the graph the	
	Is illustrated on the graph, the Petroll would hire will increase t	rom GMax to G2
. Va hor	rejecon would thre with increase i	run appax 10 Ct 2

un established de la constantion de la constanti		

E	1- (d)			number of the question esignated in the exam	on you are answering nination.
(7)	Total Ax	real rest	world	remain	constant.
<u>(ii)</u>	Marginal a	iest went	ld dear	ase	
(m)	Price of t	he produc	+ availab	decrease.	
			2		
-					
-					
		··-			



Write in the box the number of the question you are answering on this page as it is designated in the examination.	
d) lower Wage rates	
V Wagerates - does not affect total fixes	
(ii) Marginal cost decreases as the for conforction will part pay employees be	
(iii) The price of product well decome because the inputs need to wester the dem have decreased.	,
The stim have decreed,	

Write in the box the number of the question you are answering on this page as it is designated in the examination.
$\frac{2}{1}$
(a) Curve 1: Marginal Cost Curve (110)
Curve) : Average total ast chive (ATC)
curve 3: Average variable cost curve (AVC)
(b) curve 1, which is marginal cost curve, vellexts marginal product
as quantity increases . Initially, marginal product increases
due to the specialization effect. thus, marginal cost decreases to
and cut first a Housever, as the quantity increases marginal
cost increases due to the ordininishing marginal product law.
(c) Curve 2 - curve 3
= ATC-AVC = AFC
in therage Fixed cost (AFC).
(d) Fixed cost is constant throughout the production process.
therefore, as the quantity of out put increases, the average fixed cost
decreases. They, the gap between
curve 2 and curve 3 decreases as ones output increases.
(e) Short reun supply of corne : MC above AVC.
2. L, K.

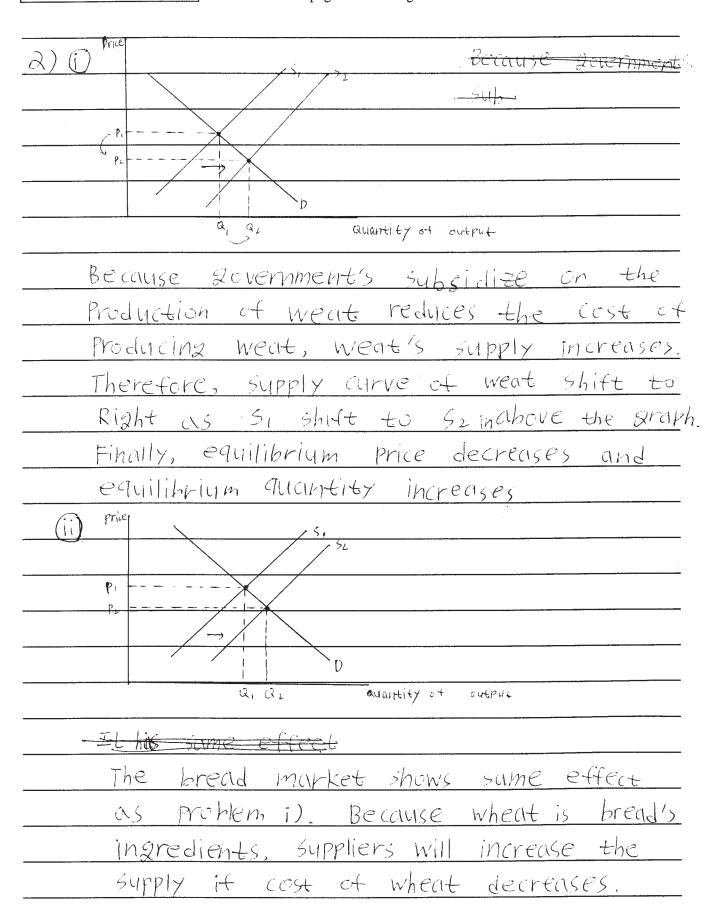
Write in the box the number of the question you are answering on this page as it is designated in the examination.	2
(a)	
(1) curve 1 is Marginal cost (MC)	
(il) (urvez is Average Total Cost (ATC)	
(111) (unce 3 is Average Variable just (AUC)	<u> </u>
p la returbet times	
P3 K Circle 3	
Pa. Com 3	
P _i J	
Q Q	
(b)	
(i') Initially decreases.	
to Cover 1 is the marginal cost curve	. It Initially
decreases before the point I because	when the pullentim
hires some contens at first they	can specialize
the work and produce more.	
(11) Finally increase	
- + However, in the shortrum, the African	Cannot make
the factory bigger in a night.	,
are hired, the less they contribu	
Therefore, because they should share -	•
the factory is crowded marginal produ	1 /
Home, the curve thaty marginal re	ost and Hises

2.	1	e box the number of e as it is designated i	the question you are an n the examination.	swering
10 The de ver	tical distance	between	anve 2 on	d Curve 3
is average of	ixed cost.	because	the curve 2	15
the average to				
the average unit's avera	ye fixed res	- 🖨 A	tc is the	Sum •
of AUC and	AFC.			
			NAME	THE STREET STREET
(d) As eutport Increases. Au	increases	it mea	ns the qu	untity &
increases. Au	erage services	cost @	appears	when
@ O the fixed				
out put. There	fore, as	output inc	meases, the	vertical
distance derver	ises.	,		
<u>e)</u> <u>R.S.</u>			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
		4,300,000		
		THE STATE OF THE S	- Control & Control of the Control o	and the second s
			- Manual - M	
		1,41		

Write in the box the number of the question you are answering on this page as it is designated in the examination.
(a) (i) Core 1 is the Magnal Cost core
(ii) Core 2 is the Average Total costs corve
(iii) Give 3 is the Average Variable costs care
(b) (i) When a business first gets stated, it costs
less for every new unit made because they all seeine
are very small at the time. The Every additional
unit of aspit initially costs less than the one before
it.
ii) As the bisiness continues eventually extent will
Start to cost now for every additional piece of output.
It mereases because every additional piece of output west
note than the one before it.
c) Between come 2 and come 3, Average Fixed
Costs is represented. AFC + AVC = ATC
d) When the himers begins, it only has fixed costs
which account for the majority of total cotts. At the bures
grows Attendance stay the save while AVC moress.
Average variable costs become the majority of the business costs
as it gets ligger causing fixed costs to be a very
small post of the ATC. This is why the gagap gets
smaller as output miseases.
e) K and L are two points on this firm's short
on sipply curve because the MC curve above MR is the
suply come.
·

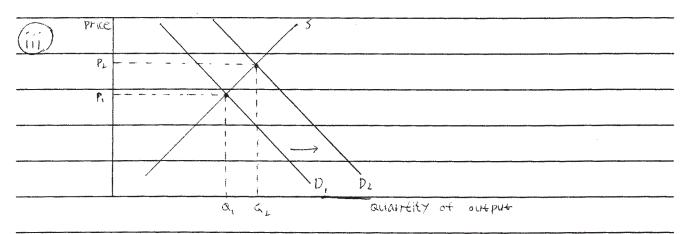
3

Write in the box the number of the question you are answering on this page as it is designated in the examination.



Write in the box the number of the question you are answering on this page as it is designated in the examination. 3

Price decreases that wheats We Can graph 117 Therefore, SUPPLY CUrve right and equilibrium ot bread decreases, equilibrium quantity Price Ther eases



Beruse CLAR

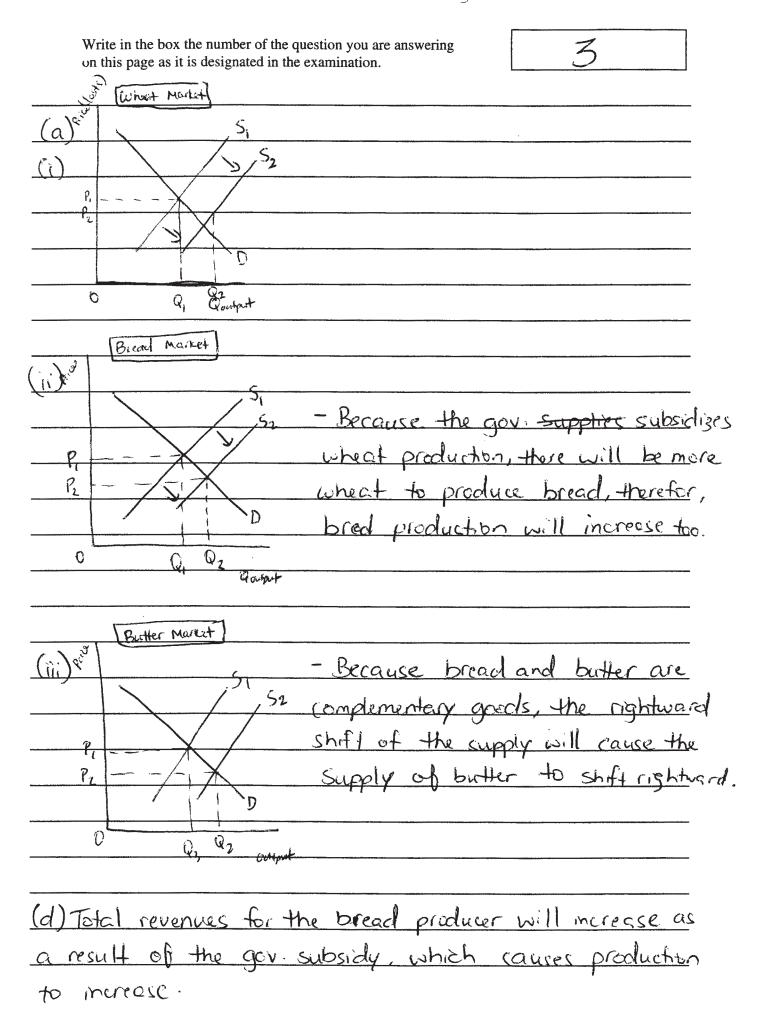
Price bread decreases Accord ## Problem to demand demand increases decreases. Price bread's demand Also, bread increases. and 200 ds complementary bread's increases increases demand demand Therefore, demand ri2ht 40 05 above. Finally, equilibrium equilibrium quantity increases and increases



3

Write in the box the number of the question you are answering on this page as it is designated in the examination.

b) Price
1 3
P ₂
A Q, Q2 quantity of output
Bread's price decreases as we can know
from problem (i) in (a).
The demand curve above is price elastic.
As we can see, when Price decreases,
Price decreases very little bit but quantity
increases for very large amount.
Because Total revenue is Price x quantity
initial total revenue of bread is area
P.AQ.B, and total revenue after
subsidy is area PLAQ.C.
Because Price increase of quantity is
much bigger than Jecrease of Price,
total revenues for the bread producers
increases after 2 overnment subsidy.



#3. Write in the box the number of the question you are answering on this page as it is designated in the examination. #3. THE MARKET WHEAT 5, 52 Pr 0 Q Q1 -> Qz The government subsidies help the wheat market ST=PL, QT. Supply more wheat (i) BREAD MARKET 0 -> Q2. æ Since wheat and bread are supplementary goods the increase in wheat supply increases the supply bread as well. ST => PI, QT

Write in the box the number of the question you are answering on this page as it is designated in the examination.

#3.

"I") THE BUTTER MARKET
P 7 , 52
51
12
7,
p.
0 Q2+Q1
Since butter and bread are complementary goods,
the increase in supply of bread decreases the supply of
butter. SI => PT, QI.
Brek)

#3.	Write in the box the number of the question you are answering on this page as it is designated in the examination.		
b). Bread = price elustic			
The gov Subsidy => -for wheat mkt	SWHEAT TO STREAD T	(".' Supplemen	utarry good) =>
→ PEREAD I →	And, because it's price elas	tic, as PJ.	, => DT => QT.
graph EREAP		emnosmososialis A	to the equilibrication for the BREAD.
51	- S	PA	DRCAP.
P	B/L it's price elas	tic.	
9	buck	- goes to	
$Q_1 \rightarrow Q_2$	brium	equili- m level	$0 \rightarrow 0_2$
(As supply of u			1
Supply of br. Price falls.	ead t.		output of bread.

·			